

Product datasheet for **SC300114**

CD35 (CR1) (NM_000651) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD35 (CR1) (NM_000651) Human Untagged Clone
Tag:	Tag Free
Symbol:	CR1
Synonyms:	C3BR; C4BR; CD35; KN
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_000651, the custom clone sequence may differ by one or more nucleotides

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ATGGGGGCTCTTCTCCAAGAAGCCCGGAGCCTGTCGGGCGCCGGCGCCCGGTCTCCCC
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 GTGGCTATCCATTTACATTCTCAAGGAGGCAGCAGCGTTCATCCCGAACTCTGCAAACA
 AATGAAGAAAATAGCAGGGTCTTCTTGA

Restriction Sites:

Please inquire

ACCN:

NM_000651

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_000651.3 , NP_000642.2
RefSeq Size:	8814 bp
RefSeq ORF:	7470 bp
Locus ID:	1378
UniProt ID:	P17927
Cytogenetics:	1q32.2
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Complement and coagulation cascades, Hematopoietic cell lineage

Gene Summary:

This gene is a member of the receptors of complement activation (RCA) family and is located in the 'cluster RCA' region of chromosome 1. The genome is polymorphic at this locus with allele-specific splice variants encoding different isoforms, based on the presence/absence of long homologous repeats (LHRs). The gene encodes a monomeric single-pass type I membrane glycoprotein found on erythrocytes, leukocytes, glomerular podocytes, and splenic follicular dendritic cells. The Knops blood group system is a system of antigens located on this protein. The protein mediates cellular binding to particles and immune complexes that have activated complement. Decreases in expression of this protein and/or mutations in this gene have been associated with gallbladder carcinomas, mesangiocapillary glomerulonephritis, systemic lupus erythematosus, sarcoidosis and Alzheimer's disease. Mutations in this gene have also been associated with a reduction in Plasmodium falciparum rosetting, conferring protection against severe malaria. [provided by RefSeq, May 2020]

Transcript Variant: This variant (S, also referred to as B) represents the longer transcript and encodes the longer isoform (S, also referred to as isoform CR1-B or CR1*2). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.